



STAFFORDSHIRE COUNTY COUNCIL.

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH,

W. D. CARRUTHERS, M.B., D.P.H.,

For the Year 1921.


STAFFORD:

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1922

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Staffordshire County Council.

Annual Report of the Medical Officer of Health.

Preliminary Note.

This year the Minister of Health has amended his instructions as to Annual Reports, and a summary of the Reports of the District Medical Officers of Health is no longer required in the Report of the County Medical Officer. The Report is thus shorter than in former years and, further, by not having to wait for the publication of all the District Reports, it has been possible to prepare it for the November meeting of the Council as was always the case before the War.

Unlike most County Reports there is no reference to the treatment of Tuberculosis for this is administered by the Staffordshire, Wolverhampton, and Dudley Joint Committee; the incidence of the disease in the County, however, is shown in the tables.

During the year under review no extension or expansion of the work undertaken by the Public Health and Health Visiting Committees has been possible, but I am glad to state that ground has not been lost and much valuable work has been accomplished particularly at the Infant Welfare Centres, whose educational value cannot be over-estimated and which in the future will have an increasingly beneficial effect on the Infantile death rate.

In addition to publishing the usual statistics, I have followed Dr. Reid's plan in giving an epitomé of the work of the Public Health and Health Visiting Committees for the twelve months ending June 30th, 1922.

W. D. CARRUTHERS,

County Medical Officer of Health.

Stafford,

September, 1922.

Summary of the Year's Work.

SUMMARY OF YEAR'S WORK OF THE PUBLIC HEALTH COMMITTEE OF THE COUNTY COUNCIL AND THE CENTRAL AUTHORITY FOR HEALTH VISITING.

Maternity and Child Welfare. — With reference to the administration of the Midwives Acts, 1902 and 1918, the Council have already been informed as to the progress of the work in the three divisions of the County, but the following statement, which I have compiled from official returns and from information supplied by the Inspectors, will indicate the present position of the County as regards the number of midwives on the Register, and the number who have notified their intention to practise, as well as other details.

There are 778 certified midwives living in the area of the Administrative County of whom 301 have notified their intention to practise. Of this number 207 are trained, leaving only 94 *bona-fide* midwives actually in practice. In addition to these, 60 midwives residing in County Boroughs and adjoining counties have also notified their intention to practise within the Administrative County.

The ages of midwives who were practising in the Administrative County in the seven years 1915—1921 are indicated in groups in the following table :—

YEAR.	25 to 45			45 to 65			65 and upwards			Totals.		
	North	Central	South	North	Central	South	North	Central	South	North	Central	South
1915 ..	48	..	53	77	..	79	32	..	32	157	..	164
1916 ..	37	..	66	74	..	66	33	..	39	144	..	171
1917 ..	37	..	59	75	..	59	34	..	33	146	..	151
1918 ..	38	..	58	72	..	52	35	..	38	145	..	148
1919 ..	30	31	40	46	43	24	26	27	21	102	101	85
1920 ..	50	50	61	36	20	22	19	24	15	105	94	98
1921 ..	58	52	60	28	22	23	21	21	16	107	95	99

As regards the number of cases attended by midwives during 1921 in the three areas respectively, the figures are as follows:—

		No. of Midwives.	Births attended.	Total Births.	Percentage attended by Midwives.	Mean number of cases attended per Midwife.
North	..	107	3393	4780	70·9	31·7
Central	..	95	3323	4947	67·1	34·9
South	..	99	6084	9121	66·7	61·4

The total number of cases attended by midwives only in the Administrative County during 1921 was 12,800, the total number of Births registered being 18,848. It thus appears that midwives attended 68 per cent. of the total births in the County, the percentage for the previous year being the same.

In compliance with the rules of the Central Midwives' Board 2,235 notifications have been received from certified midwives.

The following figures show the number and nature of the notifications received during the past 16 years:—

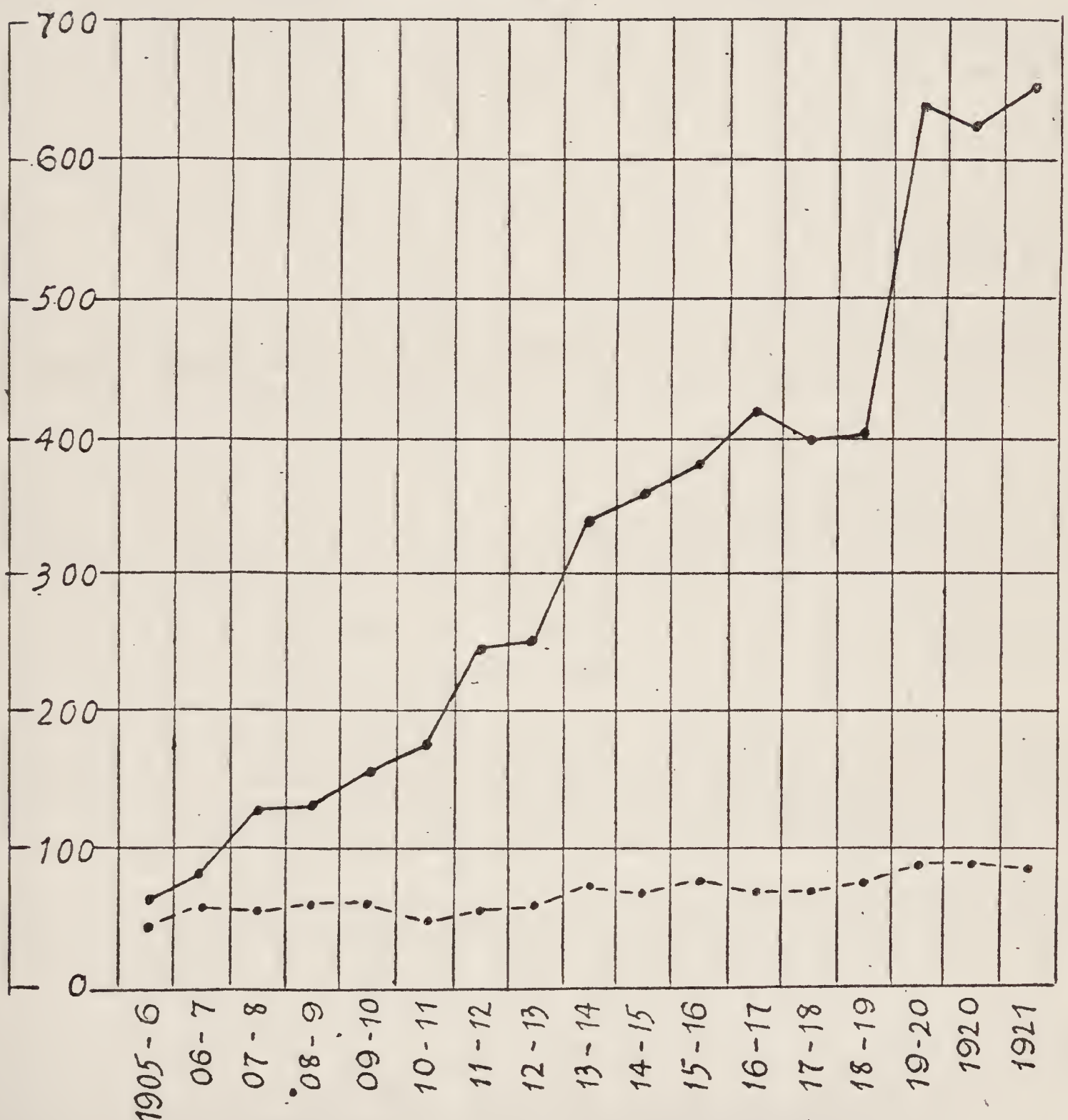
	Mean for 5 years			1920	1921
	1905-6 to 1909-10	1910-11 to 1914-15	1915-16 to 1919-20		
Sending for medical help	547	979	1335	1769	1948
Still Births ..	285	217	217	242	244
Death of Mother.	3·4	2·8	2·8	2	4
Death of Child ...	37	35	35	41	39

As compared with last year there has been a slight increase in the number of notifications, the increase being under the heading of sending for medical help, and is all the more remarkable because the actual number of cases attended was so much less than last year. It has been suggested that a factor in this increase is due to the scheme under which the County Council pay for medical assistance in necessitous cases if a midwife requires it, and whilst this may be to some

extent true yet each year the number of trained midwives increase and these would naturally from their training send for assistance more promptly than the *bona-fide* type, a fact which is borne out by the accompanying diagram which also shows the still births per hundred for each year:—

NOTIFICATIONS PER 100 MIDWIVES.

Still Births - - - - -
Medical Help ————



It will thus be seen that while the notifications of still births were nearly constant, never exceeding 100 per 100 midwives, the corresponding figures of sending for medical help steadily progressed from 63 in 1905-6 to 647 during the year under review.

The following figures show the causes which occasioned the sending for medical help :—

Causes of sending for medical aid.	Northern District.	Central District.	South'rn District.	Total.
PREGNANCY :				
Abortion	19	19	15	53
Threatened abortion.. .. .	9	3	3	15
Puffiness of face and hands.. .. .	7	1	2	10
Premature birth	11	7	1	19
Fainting	1	—	3	4
Varicose veins	3	—	1	4
Fits	—	—	1	1
Vaginal discharge	1	1	1	3
Unsatisfactory condition	1	3	8	12
Prolapse of uterus	—	—	1	1
Excessive sickness	2	1	5	8
Loss of blood	2	—	7	9
History of previous still-births and abortions	2	—	8	10
Sore of genitals	—	—	3	3
Odema of legs	2	1	1	4
	60	36	60	156
LABOUR :				
Abnormal presentation	47	39	55	141
Delayed or difficult	149	146	189	484
Placenta prævia	1	2	9	12
Hæmorrhage ante	22	15	13	50
Ditto post	7	9	17	33
Eclampsia	1	—	3	4
Prolapse of cord	3	5	5	13
Carried forward ..	230	216	291	737

Causes of sending for medical aid.	Northern District.	Central District	South'rn District.	Total.
Brought forward ..	230	216	291	737
Lacerated perinæum.. ..	106	68	148	322
Retained placenta and membranes	20	25	26	71
Unsatisfactory condition	12	7	8	27
Cough	3	—	—	3
Inertia	11	24	14	49
Contracted pelvis	4	4	3	11
Purulent discharge	2	—	2	4
	388	344	492	1224
LYING-IN :				
High temperature	25	11	44	80
Inflamed and painful leg	6	5	5	16
Convulsions	5	1	5	11
Unsatisfactory condition	3	7	11	21
Offensive lochia	—	1	1	2
Unusual swelling of breasts.. ..	1	—	4	5
Abdominal swelling and tenderness	1	—	1	2
	41	25	71	137
CHILD :				
Deformities	9	12	12	33
Convulsions	3	2	12	17
Inflamed and discharging eyes ..	47	24	24	95
Feebleness and prematurity.. ..	45	34	141	220
Unsatisfactory condition	9	12	9	30
Rash	1	1	5	7
Pemphigus	—	—	1	1
Spina Bifida	3	—	6	9
Hare lip and cleft palate	4	—	6	10
Club foot	1	—	6	7
Inflammation of umbilicus . ..	—	—	2	2
	122	85	224	431
Grand Total	611	490	847	1948

On referring to the table it will be seen that the number of still-births shows little variation from year to year. In 1921, 244 cases were reported by the midwives and special enquiries were made by the Midwives' Inspectors into 149 cases owing to the fact that there was no obvious cause stated for the still-birth in the midwife's notification. Although it must be admitted that these enquiries frequently proved abortive from the point of view of finding out the cause of still-birth, as the Inspectors make a point of advising the mother to seek medical advice I think that much good is done by undertaking them.

VISITS OF INSPECTORS, NOTIFICATIONS, INQUIRIES, &C., DURING THE YEAR 1921.

District.	Mean No. of Midwives, 1921.			Visits.	Interviews.	Notifications.										Inquiries.							
	No. on List.	Trained.	Un-trained.			Medical Assistance.	Inflamma- tion of Eyes.	Still Births.	Deaths.	Puerperal Fever.	Laying out the dead.	Contact with infection.	Artificial Feeding.	Medical Assistance.	Inflamma- tion of Eyes.	Still Births.	Deaths.	Puerperal Fever.	Laying out the dead.	Contact with infection.	Artificial Feeding.		
North...	107	72	35	479	394	611	47	89	1	9	18	7	29	30	3	73	49	1	4	13	2	28	13
Central	95	64	31	362	321	490	24	54	...	6	11	10	9	45	2	31	31	...	1	4	2	8	4
South ...	99	71	28	486	471	847	28	101	3	24	15	8	6	12	71	45	69	3	10	12	7	7	2
Totals...	301	207	94	1327	1186	1948	99	244	4	39	44	25	44	87	76	149	149	4	15	29	11	43	19

As regards ophthalmia cases, the following figures indicate the degree of severity of the cases reported during the past five years, all of which were enquired into by the midwives' inspectors :—

Year	Northern District			Central District			Southern District		
	Cases			Cases			Cases		
	Enqui- ries	Slight	Severe	Enqui- ries	Slight	Severe	Enqui- ries	Slight	Severe
1917-18	27	14	13	—	—	—	42	25	17
1918-19	20	10	10	14	9	5	22	11	11
1919-20	34	24	10	29	24	5	22	12	10
1920	45	32	13	30	23	7	23	14	9
1921	44	33	11	24	17	7	28	12	16
Totals	170	113	57	97	73	24	137	74	63

Apart from initial enquiries, special visits are paid in order to ascertain the conditions as regards the sight of each infant on the termination of the treatment.

As regards the slight cases this year, complete recovery took place in every case. Of the 34 severe cases, 29 recovered without damage to sight, three died from other causes, while two cases only suffered slight damage. With reference to the total cases, irrespective of severity, a clear history of venereal disease was established in six cases. Fifteen cases were removed to hospitals for treatment.

As regards the serious cases among the survivors during the past five years, 126 in number, only four suffered permanent damage, one having lost the sight of one eye and the remaining three of both eyes.

In addition to the routine enquiries, 27 reported irregularities were specially investigated. Of these, ten were dealt with by letters of caution from the County Medical Officer of Health; two cases were dealt with by the local Supervising Authority, in one case the midwife was severely censured, whilst in the other case the Local Supervising Authority agreed to allow the midwife to relinquish her certificate at the expiration of the cases in which she was engaged; three midwives were reported to the Central Midwives' Board; and in twelve cases circumstances did not warrant any action

being taken. As regards the three midwives reported to the Central Midwives' Board, the names were removed from the Roll and certificates cancelled in all three cases, whilst in the case of the midwife allowed to relinquish her certificate her name was removed from the Roll accordingly.

Since the Act came into operation, the names of 108 midwives have been removed from the Roll as the result of action taken by the Local Supervising Authority.

During the year it was discovered that a woman who had been removed from the Roll of Midwives had started to practise again so she was prosecuted by the Local Supervising Authority and convicted and fined.

During the year three midwives have died.

In the following table particulars as regards equipment, etc., of certificated midwives are set forth:—

PARTICULARS AS TO EQUIPMENT AND EFFICIENCY OF
MIDWIVES VISITED.

District	Requirements.			No. reasonably clean as to		No. who can—			General Efficiency.
	Bags Equipped		Case Books and Forms.			Read Ther- mometer.	Read and write.	Pass Catheter.	
	Fully.	Partially.		Person.	Home.				
North ...	105	1	105	101	101	101	101	80	97
Central.	75	20	93	93	93	94	90	79	86
South ...	79	20	99	99	99	97	88	70	89
Totals ...	259	41	297	293	293	292	279	229	272

As regards the provision of midwives, the policy of the Committee in the past has been that whilst encouraging the training of midwives to practise in the more populous areas, in the rural districts they have relied upon the County Nursing Association for forming local nursing associations and employing nurses who undertake both midwifery and general nursing. In this way it is hoped to ultimately have a complete midwifery service for the Administrative County. In 1921 the County Nursing Association were able to form one new association and the County Council trained two midwives. In

addition to this, subsidies were given to five nursing associations and four midwives. During the year the County Nursing Association have trained 20 women as nurse midwives, 18 at the Tipton Training Home and two at outside Institutions, who, upon being certificated, have been employed by the affiliated nursing associations. Up to the 30th of September of this year the Tipton Training Home was managed by a sub-committee of the County Nursing Association but from this date it was taken over by the Tipton and Ocker Hill Nursing Association. The arrangements at Tipton allow for the training of 20 pupils at once and by this means it has been possible for the County Nursing Association to train their nurses in both midwifery and general nursing.

Whilst up to the present time it has not been possible to provide any maternity homes we have continued to make use of the arrangement made with the Mrs. Legge Memorial Home, Wolverhampton, whereby, in return for a payment of 40s. per week per patient, for six weeks, prospective unmarried mothers are received into the Home for their confinements. Under the Rules of the Institution the mothers remain with their children for six months after, the cost being chiefly defrayed from philanthropic sources.

As regards the recovery of fees for medical attendance under the Midwives Act, 1918, the County Council renewed the appointment of a collector until March 31st, 1923, it being found that by his action it was possible to obtain from the patients themselves a fair proportion of the total fees incurred. For his guidance the following scale has been fixed governing the recovery or remission of the fees :—

- (i) Where the net weekly income of the family after deducting 5s. for each child under 14 years of age does not exceed 40s., the County Council shall not claim repayment of the medical practitioner's fee.
- (ii) Where the net weekly income of the family, calculated as above, is over 40s. but does not exceed 60s., the County Council shall claim repayment of one-half of such fee.

- (iii) Where the net weekly income of the family, calculated as above, exceeds 60s., the repayment of the whole of such fee shall be claimed.
- (iv) In ascertaining the weekly income of the family, the average earnings of the four weeks preceding the birth shall be taken.

The County Health Visiting Scheme, which serves a population, estimated to the middle of 1921, of 295,802 out of 721,176 in the Administrative County has, unfortunately, owing to financial conditions, not been developed in the areas served by the part-time health visitors as was originally planned. At the present time there are 18 combined school clinics and infant welfare centres which serve the more populous parts of the area where whole-time health visitors are employed, with one exception, namely, Uttoxeter, where the part-time services of the district nurses are used. At Rugeley, where there is a rural district council centre, we have entered into an agreement whereby children from the urban district can attend this centre and thus it has been possible to avoid having two centres in this small area. Since the last report the *County Council* have taken over two centres at Cheadle and *Uttoxeter, where for some* years the work has been controlled by *voluntary agencies*. All these centres, which are held weekly, are under the charge of an Assistant School Medical Inspector who is assisted by the health visitor of the district and by a band of voluntary workers. No treatment of any kind is undertaken at the centres, the work being purely educational in character.

During the year the attendances at the centres have *been maintained* and, on reference to the table at the end of the report, it will be seen how satisfactory the progress of the work has been.

With the exception of the Sedgley Centre, the premises used are rented from various religious or public bodies. The accommodation thus obtained has, with few exceptions, proved to be well suited for the purpose, consisting as it does of one waiting room, one dressing room, and one consulting room for each centre. The policy of using these

rooms in the morning as a school clinic and in the afternoon as an infant welfare centre, the same officers going to both, has shown itself to be efficient and economical in practice and the scheme has been approved by the two Committees for another year.

On April 1st, 1922, in consequence of the extension of Stoke-on-Trent, the appointments of three whole-time health visitors were terminated, and on the same date one whole-time health visitor was appointed for Cheadle parish in place of the work being done by the nursing association. On the 30th June, 1922, there were 31 whole-time health visitors in the employment of the County Council, serving an estimated population of 187,399, the remaining part of the Health Visiting area, consisting of a population of 81,339, is served by 44 part-time nurses in the employ of local nursing associations.

Rivers Pollution Prevention.—The routine work under the Rivers Pollution Prevention Acts has proceeded on former lines, the work of inspecting sewage disposal works having gone on systematically.

Owing to the condition of the River Tame the Council communicated with the various local authorities in the Tame watershed who were found to be polluting the River. In some instances pollution was found to be due to unconnected houses, whilst war conditions and the growth of population have been responsible in other instances. Under the present financial difficulties it is obvious that these defects cannot be quickly remedied. It is satisfactory to be able to state, however, that steps are being taken to deal with the matters raised.

Venereal Diseases Scheme.—During the year under review no extensions have taken place. At the present time the County Council have agreements with the North Staffordshire Infirmary, the Wolverhampton General Hospital, and the Corbett Hospital, Stourbridge, for the treatment of cases of venereal diseases, and in addition they have their own clinic at Lichfield. They are also, of course, responsible for the cost of cases from the County who attend

the clinics outside the area. The numbers treated during the year are set forth in the following table, and whilst this year there is a total of 794 cases, this compares favourably with 913 recorded during 1920 :—

STAFFORDSHIRE CASES TREATED FOR VENEREAL DISEASES
DURING THE YEAR 1921.

Clinic	Syphilis	Soft Chancere	Gonorrhoea	Non-Venereal	Total	Attendances
Wolverhampton	130	1	103	80	314	5872
Dudley	27	1	34	5	67	881
Birmingham Women's Hospital	3	—	1	1	5	69
Birmingham General Hospital	16	—	23	13	52	599
Walsall	15	—	50	6	71	760
Lichfield	54	—	34	9	97	1129
Stoke-on-Trent	95	—	57	22	174	2063
Derby Royal Infirmary	2	—	1	—	3	23
Stourbridge*	7	—	4	—	11	101
	349	2	307	136	794	11497

* From September 1st to December 31st, 1921.

In February, 1922, the attention of the Public Health Committee was drawn to the fact that an application had been received at the County Venereal Diseases Laboratory for Toxin Free Anti Gonococcic Vaccine which Dr. Menton had been preparing there for some time, and it was decided to supply this to local authorities on application at the following scale of charges :—

				£	s.	d.
Price of bottle 20 CCs containing 1,000 millions per CC	I	I	0			
„ „ „ „ 2,000 „ „	I	4	6			
„ „ „ „ 3,000 „ „	I	7	0			
„ „ „ „ 5,000 „ „	I	11	0			
„ „ „ „ 10,000 „ „	2	2	0			
„ „ „ „ 20,000 „ „	2	10	0			

Bacteriological Examinations.—The arrangement made by the Council for gratuitous bacteriological examinations at the Birmingham University in suspected cases of diphtheria, enteric fever, and tuberculosis, as well as other infectious diseases such as cerebro-spinal fever and malaria, continues to be appreciated and taken advantage of as will be seen from the following figures :—

					DIPHTHERIA.				TUBERCLE.				ENTERIC FEVER.			
					Positive.	Negative.	Doubtful.	Total.	Positive.	Negative.	Doubtful.	Total.	Positive.	Negative.	Doubtful.	Total.
Commencement of Scheme, Oct. 20, 1898, to June 30, 1899					110	101	1	212	...	...	...	...	...	...	...	...
{ From July 1. 1899, to June 30, 1900					196	180	2	378	...	...	...	...	...	...	...	...
{ From Jan., 1900, to June 30, 1900....					...	...	...	...	9	14	...	23	5	4	...	9
From July 1, 1900, to June 30, 1901					350	350	30	730	30	70	...	100	36	36	2	74
" " 1901, " " 1902					190	367	14	571	25	67	...	92	26	32	3	61
" " 1902, " " 1903					247	421	...	668	45	77	...	122	8	41	...	49
" " 1903, " " 1904					183	324	...	507	41	107	...	148	3	34	4	41
" " 1904, " " 1905					231	494	22	747	36	100	...	136	8	24	...	32
" " 1905, " " 1906					271	469	15	755	56	103	...	159	13	34	4	51
a	" " 1906, " " 1907				714	771	...	1485	82	120	...	202	18	45	...	63
b	" " 1907, " " 1908				660	943	...	1603	47	103	...	150	5	33	1	39
" " 1908, " " 1909					333	637	...	970	48	155	...	203	15	132	3	150
" " 1909, " " 1910					350	904	1	1255	62	187	...	249	11	57	1	69
c	" " 1910, " " 1911				442	1518	1	1961	55	196	1	252	13	69	3	85
d	" " 1911, " " 1912				311	1035	...	1346	13	253	...	266	11	202	4	217
" " 1912, " " 1913					175	549	...	724	109	424	...	533	10	35	...	45
i	" " 1913, " " 1914				449	1249	...	g1698	102	536	...	638	4	51	...	55
" " 1914, " " 1915					471	1218	...	h1689	110	410	...	520	21	52	...	73
j	" " 1915, " " 1916				297	774	...	k1071	87	343	...	430	11	30	1	42
l	" " 1916, " " 1917				352	810	...	m1162	119	422	...	541	10	32	1	43
n	" " 1917, " " 1918				426	1000	...	o1426	124	639	...	763	6	24	1	31
p	" " 1918, " " 1919				195	602	..	q797	123	702	..	825	2	23	2	27
s	" " 1919, " " 1920				...	...	...	r2656	...	...	...	1106	...	...	...	25
u	" " 1920, " Dec. 31, 1920				...	...	...	t1539	...	...	...	388	...	...	..	27
w	" Jan. 1st " " 1921				...	...	..	v2509	...	...	...	631	...	...	...	112
Totals from commencement of Scheme to Dec. 31st, 1921 .....					...	...	...	28459	...	...	...	8477	...	...	...	1420

- a Seven special examinations of Cerebro-Spinal fluid for Meningococcus.
b From this year onwards, excluding Smethwick, now a County Borough.
c Excluding five Pottery Towns which, with Hanley, now constitute the County Borough of Stoke-on-Trent.
d Handsworth added to Birmingham C.B., November 9, 1911.
e Including 224 "Contacts."
f Including 109 Special Blood Examinations from Cheddleton Asylum.
g Including 185 "Contacts."
h Including 117 "Contacts."
i Twelve Special Examinations of Cerebro-Spinal fluid and swabs for Meningococcus.
j Thirty-two ditto ditto ditto
k Including 106 "Contacts."
l Thirty-one Special Examinations of Cerebro-Spinal fluid and swabs for Meningococcus.
m Including 75 "Contacts."
n Forty-eight Special Examinations of Cerebro-Spinal fluid and swabs for Meningococcus
o Including 159 "Contacts."
p Forty-seven Special Examinations (34 swabs, 12 C.S.F. for Meningococcus, and one fœces and blood agglutination).
q Including one "Contact."
r Including 411 "Contacts."
s 336 blood against B. typh, and A. and B. para-typh. Nine C. S. F. and 3 swabs for Meningococcus, and 8 special examinations.
t Including 300 "Contacts."
u Two Special Examinations for C.F.S., one for Poliomyelitis and one for Meningococcus.
v Including 424 "Contacts."
w 84 Special Examinations—48 diphtheria "carriers," one vaccine diphtheria, 18 fœce 9 urine, 5 cerebro-spinal fluid and one swab, and 2 malaria,

Food and Drugs.—As regards the Sale of Food and Drugs Acts, the administration of the Acts in this County by the Public Health Committee of the County Council is highly efficient.

The County is divided into two areas under the charge of two Senior Inspectors, who have under them assistants, and who also have the power of appointing further temporary assistants as occasion requires. The work under the Weights and Measures Acts is also under the same administration and staff.

As regards the number of samples collected, this County compares favourably, I think, with other counties. In the following table I have set forth the samples which were analysed during the year 1921, together with the results:—

	No. of Samples Sub- mitted.	No. Genuine.	No. Adulter- ated.	Cautions	Prosecu- tions.	Convic- tions.
Arrowroot	10	10	..	..	..	..
Baking Powder ..	2	2	..	..	..	..
Butter	136	122	*14	1	2	2
Cheese	1	1	..	..	..	..
Coffee	28	28	..	..	..	..
Corn Flour	2	2	..	..	..	..
Cream	2	2	..	..	..	..
Cream (Preserved)	2	2	..	..	..	..
Flour	1	1	..	..	..	..
Flour (Self-raising)	25	25	..	..	..	..
Ginger (Ground) ..	31	31	..	..	..	..
Glycerine	1	1	..	..	..	..
Lard	106	106	..	..	..	..
Margarine	34	34	..	..	..	..
Milk	1466	1338	†128	55	68	66
Milk (Separated) ..	1	1	..	..	..	..
Milk (Skim)	5	5	..	..	..	..
Mustard	17	17	..	..	..	..
Oatmeal	11	11	..	..	..	..
Olive Oil	1	1	..	..	..	..
Pearl Barley	4	4	..	..	..	..
Pepper	67	67	..	..	..	..
Rice	15	15	..	..	..	..
Rice (Ground)	3	3	..	..	..	..
Rum	3	1	2	1	1	1
Sugar	1	1	..	..	..	..
Tea	3	3	..	..	..	..
Vinegar (Malt)	13	12	1	1	..	..
Whiskey	11	8	3	..	3	3
Totals	2002	1854	148	58	74	72

* Eleven cases; no jurisdiction.

† No proceedings in 5 cases, deficiency slight, possibly due to natural causes.

Summary of Statistics.

AREA AND POPULATION.

No alteration has to be recorded in the area of the Administrative County this year, but parts of the parishes of Clayton and Keele previously in the Newcastle Rural District have been transferred by Provisional Order of the Ministry of Health to the Borough of Newcastle-under-Lyme, representing an estimated population of 55.

The population of the various districts used in calculating the birth and death rates have again been supplied by the Registrar General, and the following extract from a memorandum issued by him explains how the populations were arrived at:—

“ The Census of 1921, originally planned for the 24th April, was unavoidably postponed until the 19th June; and it is now clear that, while the latter date avoided the recognised programme of industrial holidays, some holiday movement was, largely owing to the abnormally fine weather, already then in progress. This is reflected in the Census returns by the inclusion in the case of the more popular holiday areas of varying and sometimes substantial proportions of visitors.

“ The use of local population figures which depart materially from the figures of normal resident populations would, of course, be unsuitable in connection with statistics of births and deaths classified according to area of residence; and it has been deemed necessary to make an adjustment for these purposes by measuring the extent of the non-resident population in certain areas and by effecting its re-distribution throughout the country.

“ Such an adjustment has accordingly been made by means of the best data available in the preparation of the estimated mid-yearly populations for 1921. Any substantial difference between the population quoted and the corresponding Census figure should be attributed to this process of adjustment, although its effect has been negligible in the majority of areas.”

With the exception of one district, namely, Lichfield Rural, a single population is shown, and this is applicable to both births and deaths.

In the following table, the census population of the Administrative County for 1921, and the estimated population to the middle of 1921, are set forth:—

	Census, 1921.	Estimated Population to middle of 1921.
Urban	492,438	502,288
Rural	218,536	*218,888
Total.....	710,974	721,176

* The estimated population for the birth-rate in the rural districts is 220,053.

BIRTHS.

The births registered in the Administrative County numbered 18,848 compared with 20,116 the previous year, the number in the urban districts being 13,768, and in the rural districts 5,080, compared with 14,567 and 5,549 respectively.

The mean birth-rates in the whole Administrative County and in the urban and rural districts respectively for six quinquennial periods and for the past three years are shown in the following table, in which corresponding rates in England and Wales are included:—

DISTRICTS.		BIRTH-RATE PER 1000 OF POPULATION.								
		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	5 years 1914-1918	1919	1920	1921
Staffordshire	Combined Urban & Rural..	33·6	33·2	32·5	30·3	27·8	24·0	21·5	28·6	26·1
	Urban.....	35·5	34·7	33·6	31·5	29·2	25·0	22·2	29·6	27·4
	Rural	30·2	30·5	30·2	27·0	24·4	21·6	19·6	26·1	23·0
England and Wales		30·8	29·7	28·7	26·9	24·5	20·4	18·5	25·4	22·4
Large Towns in England.		31·5	30·7	29·7	27·8	25·2	20·9	19·0	26·2	23·3

* 4 years.

DEATHS.

The number of deaths in the Administrative County amounted to 8,530, the number in the urban districts being 6,139, and in the rural districts 2,391.

In the following table comparative rates for six quinquennial periods and for the past three years are given, together with corresponding figures for the country as a whole, and for large and small towns throughout England:—

DISTRICTS.		DEATH-RATE PER 1000 OF POPULATION.								
		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	5 Years 1914-1918.	1919	1920	1921
Staffordshire	Combined Urban & Rural.	18.1	16.9	16.1	14.6	14.1	15.0	14.0	12.4	11.8
	Urban.....	18.9	17.5	16.6	15.1	14.7	15.5	14.3	12.7	12.2
	Rural	16.8	15.7	15.1	13.4	12.7	13.8	13.3	11.7	10.9
England and Wales		19.1	17.4	16.9	15.3	13.9	15.2	13.8	12.4	12.1
Large Towns.....		21.0	19.0	18.2	15.8	14.3	15.5	13.8	12.5	12.3
Smaller Towns.		17.6	15.9	15.7	14.9	13.6	14.1	12.6	11.3	11.3

INFANTILE MORTALITY.

It is satisfactory to be able to record that the steady decline in infant mortality in the Administrative County during recent years has been maintained, the figure this year being 88 deaths of infants under one year per 1,000 births compared with 86 the previous year. Owing to the very hot summer it was anticipated that there would be a severe outbreak of epidemic diarrhœa and all local authorities were warned to take active measures to prevent any accumulations of filth in the neighbourhood of houses. Fortunately, the expected outbreak did not materialise and, whilst there was an increase in the diarrhœa death-rate compared with the previous year, yet the total infant death-rate for the year remains practically unaltered. This favourable result is partly due to the active measures taken in conserving infant life, but a large factor must be ascribed to the abnormally dry and hot summer which had the effect of limiting the multiplication of flies.

MATERNAL MORTALITY.

The death-rate per 1,000 births in 1921 is 3·6, the 68 deaths being Puerperal Fever 24, other accidents and Diseases of Pregnancy and Parturition 44.

SPECIAL ZYMOTIC DEATH-RATES.

Small Pox.—One death occurred from this disease during the year, namely, in the Borough of Newcastle. It is satisfactory, however, to state that this is the first death recorded in the Administrative County for 16 years.

Measles.—In the Administrative County, 75 deaths occurred from measles, as compared with 126 in 1920, equal to a rate per 1,000 of the population of 0·10, as against 0·18. Of these deaths, 59 occurred in the urban districts, or 0·11 per 1,000, and 16 in the rural districts, producing a rate of 0·07 per thousand.

In the following table mean figures are given for six quinquennial periods, and figures for the past three years :—

MEASLES.		5 years. 1889-1893.	5 years. 1894-1898.	5 years. 1899-1903.	5 years, 1904-1908.	5 years. 1909-1913.	5 years, 1914-1918.	1919	1920	1921
Urban	No. of Deaths	195	239	188	211	268	188	60	96	59
	Rate per 1000	0·50	0·58	0·42	0·41	0·54	0·41	0·12	0·19	0·11
Rural	No. of Deaths	66	69	40	39	30	37	12	30	16
	Rate per 1000	0·29	0·30	0·17	0·19	0·14	0·18	0·06	0·14	0·07

Scarlet Fever.—In the Administrative County 21 deaths occurred from scarlet fever, as compared with 23 in 1920, equal to a rate per 1,000 of the population of 0·03, as compared with 0·03 in 1920. Of these deaths, 15 occurred in the urban districts, or 0·03 per 1,000, and 6 in the rural districts, producing a rate of 0·03 per 1,000. In the following table mean figures are given for six quinquennial periods, and figures for the past three years :—

SCARLET FEVER.		5 years. 1889-1893.	5 years. 1894-1898.	5 years. 1899-1903.	5 years. 1904-1908.	5 years. 1909-1913.	5 years. 1914-1918.	1919	1920	1921
Urban	No. of Deaths	76	95	87	56	43	31	5	11	15
	Rate per 1000	0·19	0·23	0·19	0·11	0·08	0·06	0·01	0·02	0·03
Rural	No. of Deaths	39	37	36	16	11	8	1	12	6
	Rate per 1000	0·17	0·16	0·15	0·08	0·05	0·03	0·00	0·05	0·03

Diphtheria and Membranous Croup.—

In the Administrative County, 55 deaths occurred from diphtheria and membranous croup, as compared with 92 in 1920, equal to a rate per 1,000 of the population of 0·07, as against 0·13. Of these deaths, 32 occurred in the urban districts, or 0·06 per 1,000, and 23 in the rural districts, producing a rate of 0·10 per 1,000. In the following table mean figures are given for six quinquennial periods, and figures for the past three years :—

DIPHTHERIA.		5 years. 1889-1893.	5 years. 1894-1898.	5 years. 1899-1903.	5 years. 1904-1908.	5 years. 1909-1913.	5 years. 1914-1918.	1919	1920	1921
Urban	No. of Deaths	16	79	91	84	56	85	52	60	32
	Rate per 1000	0·04	0·19	0·20	0·16	0·11	0·18	0·11	0·12	0·06
Rural	No. of Deaths	20	52	72	28	26	34	25	32	23
	Rate per 1000	0·09	0·23	0·31	0·14	0·12	0·17	0·12	0·15	0·10

It is interesting to record the fact of certain special measures taken in a part of Lichfield Rural District where diphtheria had been endemic for many years but which broke out in epidemic form from time to time for no apparent reason. Arrangements were made by the School Medical Officer to systematically swab the children in the schools whereby many " carriers " were brought to light, who, in every instance, were suffering from enlarged tonsils and adenoids. The school medical staff then operated on these children and subsequent examinations showed that they were no longer

“ carriers.” These events took place six months ago and no further outbreak has occurred since.

Whooping Cough.—In the Administrative County 53 deaths occurred from whooping cough, as compared with 135 in 1920, equal to a rate per 1,000 of the population of 0·07, as against 0·19. Of these deaths, 38 occurred in urban districts, or 0·07 per 1,000, and 15 in rural districts, producing a rate of 0·07 per 1,000. In the following table mean figures are given for six quinquennial periods, and figures for the past three years :

WHOOPIING COUGH		5 years. 1889-1893.	5 years. 1894-1898.	5 years. 1899-1903.	5 years. 1904-1908.	5 years 1909-1913.	5 years 1914-1918	1919	1920	1921
Urban	No. of deaths.	182	172	152	175	132	126	66	91	38
	Rate per 1000	0·47	0·42	0·34	0·34	0·27	0·27	0·14	0·18	0·07
Rural	No. of deaths	52	54	44	42	40	30	19	44	15
	Rate per 1000	0·22	0·24	0·19	0·20	0·19	0·15	0·09	0·21	0·07

Enteric Fever.—This disease, which must be looked upon as being entirely preventable, caused 9 deaths, compared with 9 in 1920, equal to a rate per 1,000 of the population of 0·00, as against 0·01. Of these, 4 occurred in urban districts or 0·00 per 1,000, and 5 in rural districts producing a rate of 0·02 per 1,000. In the following table mean figures are given for six quinquennial periods, and figures for the past three years :—

ENTERIC FEVER.		5 years. 1889-1893.	5 years. 1894-1898.	5 years. 1899-1903.	5 years. 1904-1908.	5 years 1909-1913.	5 years 1914-1918	1919	1920	1921
Urban	No. of deaths	59	84	71	49	24	12	2	7	4
	Rate per 1000	0·15	0·20	0·16	0·09	0·05	0·02	0·00	0·01	0·00
Rural	No. of deaths	29	19	22	6	9	4	4	2	5
	Rate per 1000	0·12	0·08	0·09	0·03	0·04	0·02	0·02	0·01	0·02

Diarrhœa and Enteritis.—Until lately it has been the practice to record the diarrhœa death-rate on the basis of general population, but the Registrar-General has now taken as a basis the number of deaths from this disease among infants under two years per 1,000 births registered during the year. As it is only among infants that deaths from diarrhœa are significant from a health point of view, this new method of utilizing the figures available will, as time goes on and comparative records are extended, afford a more valuable index as to the efficacy of the preventive measures in operation.

The following are the mean rates for urban and rural areas in the Administrative County on the new basis of calculation:—Urban, 18·6; and rural, 9·0; compared with 8·3 and 6·3 respectively the previous year. The rates for individual areas are set forth in the detail tables at the end of this Report.

Tuberculosis.—Since February 1st, 1913, tuberculosis (both pulmonary and other forms), which had been partially notifiable previously, became universally notifiable.

In the following table figures are given showing the number of primary notifications received from medical practitioners, medical officers of institutions, and school medical inspectors during the twelve months, sub-divided as regards sex, age periods, and locality of disease.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912,
AND PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS (No. 2), 1918.

Summary of Notifications during the period of twelve months from 2nd Jan. to 31st Dec., 1921.

Primary Notifications by Practitioners and Medical Officers of Institutions.														Primary Notifications by School Medical Inspectors.		
Age periods	0	1	5	10	15	20	25	35	45	55	65 and up- wards.	Total.	Under 5	5 to 10	10 to 15	Total.
Pulmonary Males	2	11	55	40	28	58	89	70	40	27	4	424	—	—	3	3
" Females	1	8	57	35	38	61	77	52	16	5	2	352	—	—	—	—
Non-pulm. Males	6	16	24	6	3	5	4	5	3	—	3	75	—	3	1	4
" Females	5	12	27	8	5	3	6	2	—	—	—	68	—	1	2	3

From the figures given below it will be noted that there is a considerable increase in the number of notified cases this year compared with the previous two years, although the number is not as high as that obtaining in 1916.

The death-rate from this disease remains practically the same as last year and whilst I do not think there is any increase in the incidence of the disease we are now getting information of the cases at an earlier stage.

The following show the number of notifications received since 1913 :—

1913—1,722	1915—1,233	1917—873	1919—699	1921—929
1914—1,399	1916—1,048	1918—856	1920—642	

TABLES.

Table showing Population, Number of Persons per Acre, Birth and Death-rates, as well as the Death-rates at all ages and among Children under 1 year, and the Death-rates from Zymotic Diseases, Tuberculosis, Diseases of the Respiratory Organs, &c.

URBAN.

DISTRICT.	Population at all ages.		Number of persons per acre.	Birth-rate per 1000 of population.	General mortality per 1000 of population.	Mortality in children under one year per 1000 registered births.	Zymotic mortality.						Tuberculosis of Respiratory System.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	Pneumonia (all forms).	Other Respiratory Diseases.	Cirrhosis of Liver.	Acute and Chronic Nephritis.	Congenital Debility and Malformation; Premature Birth.
	Census 1921.	Estimated to middle of 1921					Per 1000 of population.														
							Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria.										Diarrhoea &c. (under 2 years).
Amblecote	3182	3236	4.8	23.1	11.7	40	..	..	..	..	..	0.31	0.31	..	0.02	1.23	0.31	0.31	0.31	0.92	0.62
Audley	14751	15020	1.8	24.4	10.9	65	..	..	..	..	..	..	..	10.9	0.39	0.73	0.59	0.13	0.13	0.39	0.66
Biddulph	7936	8100	1.4	28.7	11.8	94	..	..	..	..	..	0.12	0.12	..	0.37	0.61	0.98	0.12	..	0.37	0.98
Billston	27565	28150	15.0	33.3	13.9	96	..	..	0.14	0.03	0.07	0.07	0.07	29.8	0.25	1.84	1.59	0.03	0.07	0.03	1.38
Brerley Hill	12484	12760	12.5	27.2	12.8	83	..	..	..	0.08	0.08	0.08	0.08	20.1	0.23	0.94	1.33	0.15	..	0.47	1.09
Brownhills	18241	18650	2.9	28.4	12.0	98	..	..	0.80	..	..	..	..	11.3	0.10	1.39	0.96	0.05	0.05	0.21	1.39
Cannock	32321	32930	4.1	29.7	11.8	104	0.03	..	..	..	..	..	0.24	24.5	0.24	0.63	0.76	0.12	..	0.12	1.61
Coseley	24297	24800	6.6	28.9	11.4	100	..	..	0.36	0.04	0.04	0.04	0.10	20.8	0.12	1.00	1.85	0.12	..	..	1.21
Darlaston	18218	18000	20.4	27.4	11.8	88	0.05	..	..	..	..	0.37	0.10	25.4	0.16	1.07	1.77	0.21	..	0.16	0.96
Heath Town	13087	13360	15.1	25.6	10.5	84	..	..	..	..	..	..	..	17.5	0.15	1.19	1.34	0.22	..	0.29	0.89
Kidsgrove	9491	9670	3.1	27.7	10.7	74	..	..	..	..	0.10	0.10	..	18.6	0.41	1.02	0.51	0.20	..	0.10	0.72
Leek	17213	17500	12.0	21.9	13.0	80	..	..	0.05	..	..	..	0.05	5.2	0.17	0.97	0.97	0.11	..	0.28	0.74
Lichfield	8394	8370	2.4	23.3	12.4	36	0.12	..	..	0.12	..	..	..	..	..	0.71	0.24	0.47	..	0.36	0.59
Newcastle	20118	20828	31.0	29.4	14.7	88	..	0.05	..	..	0.14	..	..	19.5	0.29	1.01	1.58	0.38	0.05	0.62	0.62
Perry Barr	2701	2756	0.6	26.1	9.0	97	..	..	0.36	..	..	..	..	13.8	0.36	..	1.45	0.36	0.36	0.36	1.08
Quarry Bank	7824	8030	12.0	29.1	10.4	64	..	..	..	..	0.25	0.12	0.12	4.2	0.99	1.49	0.74	0.12	..	0.12	0.62

Deaths occurring during the year 1921, classified according to Diseases and Localities, together with Births occurring during the year.

URBAN.

DISTRICT.	Births.	Deaths from all causes.	Deaths under 1 year.	Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria.	Influenza.	Encephalitis Lethargica.	Meningococcal Meningitis.	Tuberculosis of Respiratory System.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Rheumatic Fever.	Diabetes.	Cerebral Hæmorrhage, &c.	Heart Disease.	Arterio-Sclerosis.	Bronchitis.	Pneumonia (all forms).	Other Respiratory Diseases.	Ulcer of Stomach or Duodenum.	Diarrhoea, &c. (under 2 years).	Appendicitis and Typhlitis.	Cirrhosis of Liver.	Acute and Chronic Nephritis.	Puerperal Sepsis.	Other Accidents & Diseases of Pregnancy & Parturition.	Congenital Debility and Malformation, Premature Birth.	Suicide.	Other Deaths from Violence.	Other Defined Diseases.	Diseases ill-defined or unknown.		
Amblecote	75	38	3	..	..	..	..	1	1	..	1	..	2	..	2	..	..	..	3	4	1	4	1	1	..	..	..	..	3	..	..	2	1	2	9	..
Audley	367	164	24	4	2	..	6	6	16	1	1	..	8	14	1	11	9	2	4	2	2	6	..	1	10	1	8	50	..
Biddulph	233	96	22	1	3	1	1	3	3	2	1	..	2	12	4	..	5	8	1	1	3	..	8	2	2	35	..
Blilton	939	393	90	..	..	4	1	..	2	16	2	..	29	7	26	..	..	1	20	21	6	52	45	1	2	28	1	2	1	..	2	39	4	9	72	..
Brierley Hill....	347	164	29	..	..	..	1	1	1	5	..	..	10	3	16	..	1	2	9	9	1	12	17	2	1	7	..	..	6	1	..	14	5	4	37	..
Brownhills	530	224	52	..	..	15	..	..	..	2	..	..	21	2	15	1	1	2	13	17	4	26	18	1	1	6	..	1	4	1	..	26	1	7	40	..
Cannock	979	390	102	1	..	..	..	..	8	6	..	..	25	8	38	1	..	2	22	38	7	21	25	4	2	24	1	..	4	2	53	2	15	74	5	
Coseley	719	284	72	..	..	9	1	1	1	10	..	..	23	3	12	..	..	3	16	21	2	25	46	3	..	15	..	..	..	1	30	1	9	49	2	
Darlaston	511	220	45	1	..	..	..	7	2	1	..	..	19	3	16	..	..	..	10	21	..	20	33	4	1	13	4	..	3	..	18	..	7	32	3	
Heath Town....	343	140	29	..	..	..	..	..	..	1	..	..	10	2	11	..	..	..	2	11	4	16	18	3	1	6	..	..	4	1	..	12	1	3	33	1
Kidsgrove.....	268	104	20	..	..	..	..	1	..	3	..	..	6	4	9	..	..	..	6	5	6	10	5	2	..	5	1	..	1	..	7	1	5	26	1	
Leek	384	228	31	..	..	1	..	..	1	5	..	..	11	3	24	..	..	..	21	31	7	17	17	2	2	2	..	..	5	..	1	13	5	4	50	..
Lichfield	195	104	7	1	..	..	1	..	..	4	..	..	9	..	17	1	..	..	6	14	2	6	2	4	..	..	2	..	3	..	5	1	3	23	..	
Newcastle	614	306	54	..	1	..	..	3	..	16	1	2	20	6	35	1	1	1	12	25	7	21	33	8	1	12	4	1	13	1	13	1	9	51	..	
Perry Barr.....	72	25	7	..	..	1	..	..	..	..	..	..	2	1	4	..	..	..	..	2	1	..	4	1	..	1	..	1	1	..	3	..	1	1	2	..
Quarry Bank...	234	84	15	..	..	..	..	2	1	4	..	..	8	1	8	..	..	..	6	7	..	12	6	1	1	1	..	..	1	1	5	5	3	3	16	..

District.	Population at all ages.		Number of persons per acre.	Birth-rate per 1000 of population.	General mortality per 1000 of population.	Mortality in children under one year per 1000 registered births.	Zymotic mortality.						Tuberculosis of Respiratory System.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	Pneumonia (all forms).	Other Respiratory Diseases.	Cirrhosis of Liver.	Acute and Chronic Nephritis.	Congenital Debility and Malformation: Premature Birth.
	Census 1921.	Estimated to middle of 1921.					Per 1000 of population.														
							Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria.										Diarrhoea, &c. (under 2 years).
Rowley Regis..	40037	40990	10·7	28·9	11·4	104	..	..	0·07	0·02	0·05	0·09	18·5	0·19	0·95	1·09	1·00	0·09	0·02	0·31	1·12
Rugeley	4607	4664	7·1	25·1	15·4	145	..	..	..	..	..	0·21	25·6	..	1·07	0·85	1·71	0·21	..	0·43	1·50
Sedgley	17301	17670	4·5	25·4	11·6	71	..	..	0·11	..	..	0·22	6·7	..	0·79	0·85	1·69	..	0·05	0·28	1·02
Short Heath...	4474	4544	4·3	24·4	6·6	81	..	..	..	..	0·22	..	9·0	..	0·22	0·44	0·22	..	..	0·22	1·10
Smallthorne ...	14019	14360	5·3	30·1	11·8	104	..	..	..	0·35	..	..	23·1	0·21	0·55	0·97	1·32	0·21	..	0·07	1·39
Stafford	28632	29080	8·4	20·4	11·1	74	..	..	0·03	..	0·03	..	10·1	0·24	0·82	1·10	0·82	0·27	..	0·17	0·79
Stone.....	5552	5570	5·2	20·8	13·1	77	..	..	..	..	0·54	..	8·6	0·54	1·07	0·18	0·36	..	0·18	0·36	0·54
Tamworth	8032	8150	28·7	26·8	13·0	73	..	..	..	..	0·24	..	9·1	0·61	1·47	0·61	0·98	0·37	..	0·12	0·73
Tettenhall	5489	5520	3·6	12·8	13·0	126	..	..	..	..	..	..	28·1	..	1·27	0·36	1·27	..	..	0·18	0·72
Tipton	34131	34920	16·1	31·7	13·8	113	0·03	..	0·60	0·08	0·05	0·05	28·0	0·17	0·94	0·68	2·23	0·25	0·03	0·11	1·43
Uttoxeter	5361	5410	5·2	26·8	14·2	103	..	..	..	..	..	..	6·9	0·18	1·84	0·55	0·92	0·18	..	0·18	1·66
Wednesbury....	30407	31080	13·5	29·3	13·5	116	..	..	0·06	..	0·13	0·06	25·2	0·70	0·90	1·25	1·12	0·19	0·03	0·35	1·19
Wednesfield ...	7452	7620	3·0	21·2	10·6	105	..	..	..	..	..	0·13	18·5	..	0·39	1·05	1·44	0·26	0·39	0·26	1·44
Willenhall.....	19671	20100	15·7	29·0	11·5	97	..	..	..	..	0·05	..	18·8	0·09	0·99	1·29	1·04	0·05	0·09	0·09	1·34
Wolstanton	29240	29810	5·5	25·2	12·1	107	..	..	..	0·06	0·20	..	18·6	0·23	0·94	1·14	0·63	0·10	..	0·67	1·34
Totals and Averages	492438	502288	5·9	27·4	12·2	95	0·00	0·00	0·11	0·03	0·07	0·06	18·6	0·23	0·97	1·01	1·18	0·16	0·03	0·22	1·12
96 large towns in England.	..	..	..	23·3	12·3	87	0·01	0·00	0·08	0·04	0·13	0·15	19·3	..	..	..	..	..	..	..	..

DISTRICT.	Births.	Deaths from all causes.	Deaths under 1 year.	Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria.	Influenza.	Encephalitis Lethargica.	Meningococcal Meningitis.	Tuberculosis of Respiratory System.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Rheumatic Fever.	Diabetes.	Cerebral Hemorrhage, &c.	Heart Disease.	Arterio-Sclerosis.	Bronchitis.	Pneumonia (all forms).	Other Respiratory Diseases.	Ulcer of Stomach or Duodenum	Diseases, &c. (under 2 years).	Appendicitis and Typhlitis.	Cirrhosis of Liver.	Acute and Chronic Nephritis.	Puerperal Sepsis.	Other Accidents & Diseases of Pregnancy & Parturition.	Congenital Debility and Malformation, Premature Birth.	Suicides.	Other Deaths from Violence.	Other Defined Diseases.	Diseases ill-defined or unknown	
Rowley Regis...	1186	469	124	3	1	2	4	15	1	..	31	8	39	4	4	4	21	37	6	45	41	4	1	22	5	1	13	2	8	40	4	16	84	1
Rugeley	117	72	17	1	2	1	..	5	2	1	12	3	4	8	1	..	3	2	..	1	7	1	1	17	..
Sedgley	449	206	32	2	4	11	10	..	14	1	6	7	18	1	15	30	30	..	1	3	2	1	5	3	1	18	1	4	47	1
Short Heath....	111	30	9	..	..	..	..	1	..	1	..	..	2	..	1	..	..	..	2	2	..	3	1	..	..	1	..	..	1	..	5	..	1	10	..
Smallthorne ...	432	170	45	5	4	..	1	12	3	8	..	1	1	10	19	3	14	19	3	..	10	2	..	1	1	2	20	1	3	26	2
Stafford	595	324	44	..	..	1	..	1	..	1	..	1	30	7	24	2	1	1	26	33	5	32	24	8	1	6	1	..	6	1	23	2	8	78	1
Stone.....	116	73	9	..	..	..	..	3	..	1	..	..	2	3	6	..	2	2	8	9	..	1	2	..	1	1	1	1	2	..	3	2	2	22	1
Tamworth	219	106	16	..	..	..	..	2	..	1	..	..	4	5	12	..	1	1	8	13	3	5	8	3	..	2	..	..	1	..	6	1	4	27	..
Tettenhall	71	72	9	..	..	..	..	..	..	2	1	..	3	..	7	..	2	2	7	15	..	2	7	..	1	2	1	..	1	..	4	1	1	15	..
Tipton.....	1107	482	125	1	..	21	3	2	2	14	..	..	19	6	33	1	5	17	23	5	24	78	9	3	31	4	1	4	1	3	50	3	17	100	2
Uttoxeter	145	77	15	..	..	..	..	..	..	2	..	..	3	1	10	..	1	3	7	4	3	5	5	1	2	1	..	..	1	..	9	2	2	20	..
Wednesbury...	913	421	106	..	..	2	..	4	2	10	..	2	26	22	28	1	3	25	31	2	39	35	6	6	1	23	1	1	11	1	37	2	8	95	2
Wednesfield ...	162	81	17	..	..	..	..	..	1	..	..	..	10	..	3	..	1	5	6	..	8	11	2	2	..	3	..	3	2	..	11	1	..	13	1
Willenhall.....	533	231	57	..	..	..	..	1	..	3	..	..	22	2	20	2	1	12	15	3	26	21	1	1	1	11	1	2	2	..	27	..	4	53	1
Wolstanton	752	361	81	..	..	..	2	6	..	11	..	1	20	7	28	3	6	31	36	12	34	19	3	3	2	14	1	..	2	1	40	1	14	64	1
Totals.....	13768	6139	1309	4	1	59	15	38	32	158	9	8	405	110	489	22	47	349	50	96	512	596	81	26	257	35	17	111	18	31	564	46	170	1276	25	

District.	Population at all ages.		Mean area per person in acres.	Birth-rate per 1000 of population.	General mortality per 1000 of population.	Mortality in children under one year per 1000 registered births.	Zymotic mortality.							Tuberculosis of Respiratory System.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	Pneumonia (all forms).	Other Respiratory Diseases	Cirrhosis of Liver.	Acute and Chronic Nephritis.	Congenital Debility and Premature Birth.
	Census 1921.	Estimated to middle of 1921					Per 1000 of population.															
							Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria										
Blore Heath ...	2283	2282	5.9	20.6	14.4	42	0.43	1.75	1.31	0.87
Cannock.....	21553	21860	2.4	25.9	9.4	74	0.04	0.13	..	..	..	7.06	0.54	1.14	0.45	0.73	..	0.04	0.09	1.05	..
Cheadle	28452	28730	1.8	22.6	11.0	66	0.07	..	0.07	0.07	..	7.68	0.59	0.87	0.97	0.55	0.07	0.03	0.19	0.83	..	
Gnosall	4634	4655	6.2	19.7	12.8	76	..	..	..	..	..	..	1.07	1.28	1.71	..	..	..	0.21	0.21	..
Kingswinford....	22057	22430	0.25	28.3	10.3	96	..	0.13	0.13	0.13	..	18.8	0.44	1.20	0.89	0.75	0.04	0.04	0.17	0.93	..	
Leek	16123	16190	4.3	24.3	11.6	73	..	..	..	0.24	0.10	7.6	0.55	0.92	0.92	0.92	0.30	..	0.12	0.92	..
Lichfield	29451	28565	2.5	24.0	10.8	70	..	..	0.31	0.10	0.10	5.8	0.59	0.94	0.91	0.66	0.07	0.10	0.24	0.84	..
Mayfield.....	3992	3958	6.2	23.2	11.8	65	..	..	..	0.25	0.31	10.8	0.25	0.50	..	1.51	..	..	0.50	0.25	..
Newcastle	6328	6352	3.1	23.3	12.7	54	..	0.31	0.31	0.31	0.15	..	..	1.10	1.41	..	0.31	..	0.47	1.10	..
Seisdon	16816	16710	2.6	20.0	11.2	53	..	..	0.18	0.06	..	5.9	0.59	0.95	0.83	1.01	0.06	0.06	0.12	0.36	..
Shifnal	689	676	8.0	16.2	13.3	..	..	..	..	..	..	..	1.47	1.47	2.95	..	..	..	..	..	..
(Staffs. par.)	11054	11070	4.9	15.3	9.8	53	..	..	..	0.18	..	5.8	0.18	1.17	0.18	0.63	0.09	0.09	0.09	0.45	..
Stafford	5009	5100	0.6	25.6	11.5	107	..	..	0.19	..	0.19	38.1	1.76	0.58	1.37	0.58	..	..	..	1.57	..
Stoke-on-Trent	14503	14470	4.6	20.8	12.0	56	..	..	..	0.07	..	3.3	0.41	1.31	0.96	0.62	0.20	0.07	0.34	0.48	..
Stone.....	5357	5400	4.0	22.9	10.2	72	..	..	..	0.18	..	16.1	0.18	0.92	1.29	0.55	..	..	..	0.92	..
Tamworth	8908	8920	3.0	19.8	12.4	39	0.11	0.11	0.18	..	0.11	5.6	0.56	1.90	0.45	0.56	0.33	..	0.45	0.33	..	
(Staffs. par.)	8305	8300	5.7	19.5	11.3	43	0.12	..	..	..	..	6.1	0.60	1.44	0.84	0.60	0.48	..	..	0.36	..
Tutbury	13022	13220	0.9	24.8	9.1	70	..	0.22	0.22	0.22	..	12.2	0.45	1.06	0.53	0.68	..	..	0.07	0.75	..
Uttoxeter																						
Walsall																						
Totals and Averages	218536	218888	2.8	23.0	10.9	69	0.02	..	0.07	0.03	0.07	0.10	0.53	1.03	0.83	0.68	0.11	0.04	0.17	0.74	..	

* The birth-rate for Lichfield R.D. is calculated on an estimated population of 29,730.
† The mean birth-rate in the rural districts is calculated on an estimated population of 220,053.

District.	Births.	Deaths from all causes.	Deaths under 1 year.	Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria.	Influenza.	Encephalitis Lethargica.	Meningococcal Meningitis.	Tuberculosis of Respiratory System.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Rheumatic Fever.	Diabetes.	Cerebral Haemorrhage.	Heart Disease.	Arterio Sclerosis.	Bronchitis.	Pneumonia (all forms).	Other Respiratory Diseases.	Ulcer of stomach or duodenum.	Diarrhoea, etc., (under 2 years).	Appendicitis and Typhilitis.	Cirrhosis of Liver.	Acute and Chronic Nephritis.	Puerperal Sepsis.	Other accidents & Diseases of Pregnancy & Parturition.	Congenital Debility and Malformation, Premature Birth.	Suicide.	Other deaths from Violence.	Other Defined Diseases.	Diseases ill-defined or unknown.		
Blore Heath ..	47	33	2	..	..	..	..	..	..	1	..	..	..	1	4	1	..	..	4	2	1	3	2	..	..	..	..	..	..	..	..	..	..	..	..	14	..
Cannock.....	566	206	42	1	..	..	..	3	..	6	..	1	12	5	25	..	..	4	15	15	2	10	16	..	..	1	4	1	1	2	..	1	23	3	5	49	2
Cheadle	651	317	43	2	..	1	2	..	2	10	3	..	17	6	25	1	..	3	12	57	12	28	16	2	2	2	5	4	1	3	3	1	24	1	7	65	2
Gnosall	92	60	7	..	..	..	..	..	..	..	..	..	5	1	6	..	..	1	4	10	3	8	..	..	..	..	..	1	..	1	..	1	..	4	15	..	
Kingswinford....	636	231	61	..	..	1	..	3	3	1	..	..	10	9	27	..	..	3	10	15	2	20	17	1	1	12	1	1	4	..	3	21	..	10	55	..	
Leek	394	188	29	..	..	..	..	..	4	4	1	..	9	3	15	1	..	3	6	27	3	15	15	5	2	2	3	..	..	2	2	..	15	1	4	48	..
Lichfield	714	309	50	..	..	..	9	3	3	10	..	..	17	5	27	..	..	2	24	38	15	26	19	2	2	4	..	3	..	7	..	1	24	1	7	58	1
Mayfield.....	92	47	6	..	..	..	..	..	1	2	..	..	1	1	2	..	..	..	2	6	1	..	6	..	1	1	1	2	..	3	..	1	1	3	12	..	
Newcastle	148	81	8	..	..	1	1	2	2	1	..	..	..	..	7	1	..	1	1	12	1	9	..	2	2	..	1	1	..	3	..	..	7	1	1	25	..
Seisdon	335	187	18	..	..	3	..	..	1	3	..	..	10	2	16	..	..	2	11	33	4	14	17	1	1	3	2	2	1	2	..	..	6	1	7	46	..
Shifnal	11	9	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	
(Staffs. par.)																																					
Stafford	170	109	9	..	..	..	..	..	2	1	..	..	2	3	13	..	..	2	9	11	4	2	7	1	1	2	1	1	1	1	..	1	5	3	4	32	1
Stoke-on-Trent	131	59	14	..	..	..	1	..	..	1	..	..	9	..	3	..	..	1	5	7	..	7	3	..	..	5	..	..	..	..	..	8	1	1	6	1	1
Stone.....	302	174	17	..	..	..	..	..	1	2	..	..	6	4	19	1	..	2	8	21	1	14	9	3	3	1	1	2	1	5	..	3	7	2	5	56	..
Tamworth	124	55	9	..	..	..	1	..	1	2	..	..	1	1	5	1	..	..	6	3	3	7	3	..	..	..	2	1	..	..	..	5	1	1	10	1	
(Staffs. par.)																																					
Tutbury	177	111	7	1	..	1	..	1	..	2	..	..	5	2	17	1	..	1	9	12	1	4	5	3	3	2	1	1	..	4	..	3	..	5	28	2	
Uttoxeter	162	94	7	1	..	..	..	..	..	2	..	..	5	1	12	..	..	1	4	14	6	7	5	4	4	1	1	..	..	1	2	3	2	3	19	..	
Walsall	328	121	23	..	..	..	..	3	3	2	..	..	6	3	14	..	..	1	9	7	4	7	9	..	1	4	1	1	..	1	..	10	..	5	30	..	
Totals.....	5080	2391	352	5	..	16	6	15	23	49	4	1	116	47	238	7	27	139	292	63	183	149	24	22	46	17	9	38	6	13	163	20	72	571	10		

Table showing the number of cases of certain Infectious Diseases notified in each sanitary area during the year 1921, and the Attack-Rates per 1000 of the population.

URBAN.

DISTRICT.	Estimated Population in the middle of 1921.	Small-pox.		Scarlet Fever.		Diphtheria.		Enteric Fever.		Puerperal Fever.		Erysipelas.		Continued Fever Cases.	Cerebro-spinal Fever Cases.	Polio-myelitis Cases.
		Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.			
Amblescote	3236	..	..	2	0·62	3	0·92	1	0·31	..	..	..	..	..	..	..
Audley	15020	..	..	10	0·66	13	0·86	..	..	..	..	4	0·26	..	..	..
Biddulph	8100	..	..	6	0·74	9	1·11	1	0·12	..	..	1	0·12	..	1	..
Bilston	28150	..	..	16	0·57	10	0·35	1	0·03	1	0·03	4	0·14	..	..	..
Brierley Hill....	12760	..	..	18	1·41	1	0·08	..	..	..	..	2	0·15	..	..	..
Brownhills	18630	..	..	104	5·58	29	1·55	1	0·05	2	0·10	2	0·10	..	..	..
Cannock.....	32230	..	..	50	1·52	78	2·37	4	0·12	5	0·15	9	0·27	..	..	1
Coseley	24800	..	..	35	1·41	1	0·04	..	..	..	..	5	0·20	..	..	..
Darlaston	18660	..	..	46	2·46	6	0·32	..	..	..	..	..	..	..	..	..
Heath Town....	13360	..	..	36	2·69	3	0·22	1	0·07	1	0·07	2	0·15	..	..	..
Kidsgrave.....	9670	..	..	8	0·82	10	1·03	..	..	1	0·10	4	0·41	..	..	..
Leek	17500	..	..	51	2·91	25	1·43	..	..	..	..	3	0·17	..	..	..
Lichfield	8370	..	..	8	0·95	1	0·12	13	1·55	1	0·12	1	0·12	..	..	..
Newcastle	20828	1	0·05	5	0·24	51	2·45	2	0·09	1	0·05	6	0·29	..	1	..
Perry Barr.....	2756	..	..	1	0·36	2	0·72	..	..	..	..	2	0·72	..	..	..
Quarry Bank....	8030	..	..	17	2·11	15	1·86	1	0·12	..	..	1	0·12	..	..	..

URBAN—continued.

DISTRICT.	Estimated Population in the middle of 1921.	Small-pox.		Scarlet Fever.		Diphtheria.		Enteric Fever.		Puerperal Fever.		Erysipelas.		Continued Fever Cases.	Cerebro-spinal Fever Cases.	Polio-myelitis Cases.
		Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.			
Rowley Regis..	40990	..	..	88	2.14	22	0.53	..	..	3	0.07	15	0.36	..	..	..
Rugeley	4064	..	..	..	..	3	0.64	..	..	..	..	1	0.21	..	..	..
Sedgley	17670	..	..	74	4.18	20	1.64	..	..	4	0.22	8	0.45	..	..	..
Short Heath....	4544	..	..	1	0.22	..	..	..	..	..	..	1	0.22	..	..	..
Smallthorne ...	14360	..	..	71	4.94	20	1.81	..	..	4	0.28	13	0.90	..	..	..
Stafford	29080	..	..	78	2.68	30	1.03	..	..	1	0.03	9	0.31	..	..	1
Stone.....	5570	..	..	1	0.18	6	1.07	..	..	..	..	..	..	..	..	..
Tamworth	8150	..	..	66	8.09	1	0.12	..	..	..	..	5	0.61	..	..	1
Tettenhall	5520	..	..	31	5.61	2	0.36	..	..	..	..	2	0.36	..	..	..
Tipton	34920	..	..	194	5.55	9	0.25	4	0.11	..	..	30	0.86	..	..	..
Uttoxeter	5410	..	..	6	1.11	5	0.92	..	..	..	..	5	0.92	..	..	..
Wednesbury....	31080	..	..	59	1.90	28	0.90	1	0.03	2	0.06	19	0.61	..	1	..
Wednesfield ...	7520	..	..	14	1.83	5	0.65	..	..	..	..	3	0.39	..	..	..
Willenhall.....	20100	..	..	30	1.49	1	0.05	..	..	..	..	..	..	..	..	..
Wolstanton	29810	..	..	31	1.04	33	1.10	..	..	1	0.03	5	0.16	..	..	3

RURAL.

District	Estimated Population in the middle of 1921.	Small-pox.		Scarlet Fever.		Diphtheria.		Enteric Fever.		Puerperal Fever.		Erysipelas.		Continued Fever Cases.	Cerebro- spinal Fever Cases.	Polio- myelitis. Cases.
		Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.	Cases.	Rate.			
Blore Heath ...	2282	..	..	1	0.44	16	7.01	..	..	..	..	2	0.87	..	..	..
Cannock.....	21860	..	..	50	2.28	16	0.73	..	..	1	0.04	4	0.18	..	..	1
Cheadle	28730	..	..	183	6.37	37	1.28	5	0.17	4	0.14	11	0.38	..	..	1
Gnosall	4655	..	..	1	0.21	3	0.64	..	..	..	..	..	..	..	..	..
Kingswinford....	22430	..	..	50	2.23	9	0.40	..	..	..	..	4	0.18	..	..	..
Leek	16190	..	..	31	1.91	26	1.60	..	..	2	0.12	3	0.18	..	..	..
Lichfield	28565	..	..	129	4.51	64	2.24	19	0.66	2	0.07	9	0.31	..	..	..
Mayfield.....	3958	..	..	3	0.75	2	0.50	..	..	..	..	2	0.50	..	..	..
Newcastle	6352	..	..	1	0.15	11	1.73	..	..	1	0.15	2	0.31	..	1	..
Selsdon	16710	..	..	58	3.47	14	0.83	..	..	..	..	..	..	..	1	..
Shifnal	676	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(Staffs. par.)		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stafford	11070	..	..	8	0.72	11	0.99	3	0.27	..	..	1	0.09	..	..	1
Stoke-on-Trent	5100	..	..	..	..	1	0.19	..	..	..	..	1	0.19	..	1	..
Stone.....	14470	..	..	24	1.66	12	0.83	..	..	..	..	4	0.27	..	..	..
Tamworth	5400	..	..	23	4.26	5	0.92	..	..	..	..	2	0.37	..	..	..
(Staffs. par.)		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tutbury	8920	..	..	27	3.02	1	0.11	..	..	..	..	..	..	..	..	..
Uttoxeter	8300	..	..	9	1.08	6	0.72	..	..	..	..	2	0.24	..	..	..
Walsall	13220	..	..	28	2.11	19	1.43	1	0.07	3	0.22	4	0.30	..	..	..

District.	Population Estimated at middle of 1921.	Births.										
		Registered.	Notified.								By Midwives.	
			Full term.		Premature.		Stillborn.					
			L.	I.	L.	I.	L.	I.		L.		I.
URBAN.												
AUDLEY	15020	350	17	340	9	4	—	19	—	278	8	
BIDDULPH	8100	219	14	172	9	1	1	2	—	193	8	
BROWNHILLS	18630	508	22	477	12	12	—	7	—	409	8	
HEATH TOWN	13360	332	11	304	5	6	—	8	—	235	5	
KIDSGROVE.. ..	9670	252	16	191	4	2	—	5	—	191	4	
LICHFIELD	8370	184	11	160	14	5	—	14	4	138	13	
PERRY BARR	2756	69	3	34	—	—	—	—	—	—	34	
QUARRY BANK	8030	230	4	188	2	3	1	9	—	190	2	
RUGELEY	4664	110	7	114	3	—	—	4	—	109	2	
SEDGLEY	17670	438	11	411	32	4	1	14	3	382	32	
SHORT HEATH	4544	110	1	119	1	2	—	2	—	86	—	
SMALLTHORNE	14360	415	17	387	6	10	—	10	—	326	7	
TAMWORTH	8150	209	10	175	6	3	—	4	—	171	6	
UTTOXETER	5410	133	12	122	7	1	—	4	2	96	5	
WEDNESFIELD	7620	154	8	149	3	5	—	5	—	48	3	
WILLENHALL	20100	568	15	555	3	12	—	13	—	209	1	
RURAL.												
BLORE HEATH	2282	41	6	17	—	1	—	—	—	9	1	
CHEADLE	28730	630	21	377	11	8	—	7	4	322	9	
GNOSALL	4655	84	8	44	4	1	1	8	—	36	2	
LEEK	16190	365	29	380	21	7	—	9	1	233	13	
MAYFIELD	3958	87	5	35	3	4	—	3	—	34	4	
NEWCASTLE	6352	140	8	82	7	—	—	4	1	83	6	
STAFFORD	11070	158	12	83	9	4	—	4	—	80	9	
STOKE-ON-TRENT	5100	124	7	119	4	3	—	6	—	119	3	
STONE	14470	291	11	155	3	19	—	13	—	140	2	
TAMWORTH	5400	121	3	55	1	2	1	—	—	31	1	
TUTBURY	8920	171	6	69	1	6	—	8	—	52	1	
UTTOXETER	8300	147	15	55	5	5	3	7	1	60	6	
WALSALL	13220	320	8	226	—	1	—	3	—	115	1	
PARISHES.												
BLYMILL AND WESTON ..	676	10	1	11	—	—	—	—	—	7	1	
DUDLEY CASTLE HILL ..	25	—	—	—	—	—	—	—	—	—	—	
	295802	6970	319	5606	185	131	8	192	16	4382	197	

Maternity

Particulars relating to the wool

[illegible]

L.—Legitimate. I.—Illegitimate.

(a) One H.V. al

(b) Also serves

(c) Also part of

and Infant Welfare

rk during the year ending

Visits.		Total Visits.			Children on Visiting List at end of 1921.	
Children.		Expectant Mothers.	Children.		Under One Year.	One Year and under five.
Under year.	Between 1 & 5 years.		Under 1 year.	Between 1 & 5 years.		
453	3403	127	2830	3422	318	1078
336	1007	41	1548	1007	196	310
325	3869	251	3137	4226	517	1565
040	1045	67	1287	1045	253	778
058	1186	72	1445	1272	279	631
035	1617	162	1556	1621	191	381
003	232	51	253	233	34	96
032	1756	135	974	1756	193	524
058	647	86	977	650	96	269
039	3897	231	2800	3907	397	1253
096	1000	84	813	1003	118	394
006	1922	39	2401	1922	357	1019
045	1323	113	1310	1378	185	391
007	38	192	998	479	120	290
093	927	95	864	927	148	443
019	2365	294	2741	2372	509	1214
033	218	32	155	218	25	65
038	3154	466	2705	3300	466	1227
014	676	104	816	760	74	98
009	2825	174	1500	2882	357	904
014	956	145	619	995	60	139
014	1541	55	1164	1549	116	278
011	1163	299	908	1220	100	236
015	1302	86	860	1305	108	275
012	2472	557	1438	2781	172	442
016	710	251	668	914	95	176
018	697	113	474	965	116	312
019	706	257	839	1113	103	196
015	925	62	937	1130	251	825
012	68	—	54	68	7	16
010	—	—	—	—	—	—
010	43647	4641	39071	46420	5961	15825

date. † Districts or parts of districts worked by emergency nurses.

so serves part of Leek R.D.
part of Walsall R.D.
Willenhall U.D.

re.

31st December, 1921.

Deaths and Removals of Children on Visiting List during 1921.												Welfare Centre.				
Under ten days.				Over ten days and under one year.				One year and under five.				Average Monthly No. on books during 1921.			Total No. o	
Deaths.		Removals.		Deaths.		Removals.		Deaths.		Removals.		Expectant Mothers.	Children.		Expectant Mothers.	Under one year.
L.	I.	L.	I.	L.	I.	L.	I.	L.	I.	L.	I.		Under one year.	Between 1 and 5 years.		
2	—	—	—	13	—	23	—	9	1	31	2	—	72	77	3	858
6	—	—	—	10	—	10	1	2	—	1	—	—	79	36	—	336
13	—	—	—	33	1	1	1	13	1	19	—	—	123	29	2	1127
8	—	1	—	14	1	17	—	4	—	4	—	2	108	72	43	1033
2	—	—	—	7	—	2	1	—	—	4	—	—	75	20	1	458
3	—	2	—	3	—	35	5	—	—	18	—	4	49	35	55	670
2	—	—	—	—	—	1	—	1	—	6	—	2	37	29	11	324
4	—	—	—	14	—	18	5	5	—	19	—	1	71	8	4	492
2	—	—	—	8	1	10	—	2	—	6	—	—	Not available		—	—
6	—	—	—	17	2	23	—	20	—	20	—	6	132	77	36	1107
3	—	—	—	5	—	5	—	—	—	4	—	1	37	65	5	554
9	2	2	—	24	1	24	1	2	—	18	—	—	—	—	—	—
5	—	—	—	8	—	12	2	4	—	12	—	3	45	42	42	598
2	—	—	—	1	—	3	—	1	—	—	—	—	40	12	—	406
10	—	—	—	8	1	16	—	4	—	11	—	4	41	49	64	719
15	—	—	—	26	—	13	—	11	—	4	—	3	113	178	45	1575
1	—	—	—	—	—	4	—	—	—	12	1	—	—	—	—	—
6	—	—	—	6	1	24	—	3	—	24	1	—	6	23	—	30
—	—	—	—	2	2	7	2	1	—	11	2	—	—	—	—	—
14	1	1	2	19	1	30	1	7	—	39	1	—	—	—	—	—
—	—	—	1	2	—	3	—	1	—	6	—	—	—	—	—	—
3	—	—	—	7	—	5	—	3	—	4	—	—	—	—	—	—
—	—	—	—	1	—	3	—	—	—	5	2	5	11	1	50	147
3	—	—	—	8	—	13	—	1	—	8	1	—	—	—	—	—
4	—	1	—	4	—	8	—	2	—	13	—	—	—	—	—	—
1	—	—	—	—	—	7	—	—	—	9	—	—	—	—	—	—
4	—	—	—	2	—	12	—	—	—	14	1	—	—	—	—	—
1	1	1	—	—	—	4	1	2	—	8	—	—	7	12	3	54
3	—	—	—	7	—	1	—	3	—	8	—	1	43	28	14	753
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
132	4	8	3	249	11	334	20	101	2	338	11	32	1089	793	378	11241

of Attendances.			No. of cases of insanitary conditions reported to Medical Officer of Health.	No. of Health Visitors.		Remarks.
Children.	Between 1 and 5 years.	Health Visitor.		Whole- time.	Part- time.	
387	99	85	3	—	2 Welfare Centres Centre opened June/21	
130	65	6	2 (a)	—		
225	92	75	3	—		
346	92	13	2	—		
100	80	1	2	—		
313	73	20	2	—		
197	50	7	1 (b)	—		
76	23	3	1	—		
			1	—		
522	92	45	3	—		
341	51	49	1 (c)	—		
—	—	24	2	—		
625	32	47	1	—	Centre opened May/21	
103	11	—	—	2	Voluntary Centre	
390	48	9	1	—		
978	100	80	3	—		
—	—	—	—	2		
42	9	43	1	10 †	Voluntary Centre	
—	—	1	—	2 †		
—	—	11	2	—		
—	—	—	—	3 †		
—	—	—	—	2 †		
34	14	—	—	6 †	Voluntary Centre at Haywood	
—	—	25	1	—		
—	—	7	—	6 †		
—	—	—	—	5		
—	—	2	1	1 †		
101	18	—	—	4 †	Voluntary Centre.	
306	99	23	1	—		
—	—	—	—	1		
—	—	—	—	— †		
5216	1048	576	33	44		